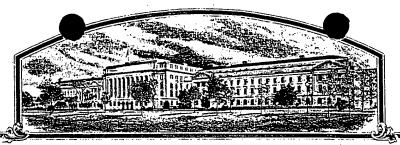
No.



9400281

THIE UNITED STRATES OF ANDERION

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Limagrain Genetics Corp.

Increase, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT. THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF EIGHTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE HIT TO EXCLUDE OTHERS FROM SELLING THE VARIETY; OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO IT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

CORN

'L163'

In Testimon Morrors. I have hereunto sel my hand and caused the seal of the Mant Mariety Archertion Office to be affixed at the City of Washington, D.C. this thirty-first day of March in the year of our Lord one thousand nine hundred and ninety-seven.

Allest:

Marsha J. Startor Commissioner

Plant Variety Protection Office Syricultural Warbeting Service Secretary of Agriculture

Public reporting burden for this collection of inform: Jon is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and or injecting and reviewing the collection of information. Send comments regarding this burden estimate or any collection of information, including suppositions for such gaths burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 2015: do the Office of Management and Budget, Paperwork Reduction 1 sect (OMB #0581-0055), Washington, 20250.

U.S. DEPARTMENT OF A AGRICULTURAL MARKE	GRICULTURE TING SERVICE			Application in quired in order to
APPLICATION FOR PLANT VARIET	Y PROTECTI	ON CERTIFIC	ATE	determine if a int variety protection conflicate is to issued (7 U.S.C. 2421). Information it: rield conflidential until conflicate is is: ed (7 U.S.C. 2426).
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY EXPERIMENT	DESIGNATION OR	3. VARIETY NAME 745
Limagrain Genetics Corp.		L163	AL NU.	L163 3/7/97
4 ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)		5 PHONE (Inclu	de area code)	FOR OFFICIAL USE ONLY
P.O. Box 278				PYPO NUMBER
Kirkland, IL 60146		815-5	22-3246	140 1261
			•	1 Sent 26 199A
6. GENUS AND SPECIES NAME	7. FAMILY NAME (B	olanical)		Time
Zeamays	POACEAE			Ğ
8 CROP KIND HAME (Common Name)	<u> </u>	9. DATE OF DETERM	INATION	F Filing and Examination Fee:
Corn, Field		April 19	987	S Dais
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGA	NIZATION (Corporation	n, perinership, associatio	on, etc.)	1 Sept. 26 1994
Corporation				C Carrilicate Fee:
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		2. DATE OF INCORPOR	ATION	: 300
Delaware		April 5,		V Date E D 23 - 67-97
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO	SERVE IN THIS APPL	CATION AND RECEIVE	ALL PAPERS	
John Lillstrom				
Limagrain Genetics Corp.			•	,
P.O. Box 278, Kirkland, IL 60			ONE (Include area cod	tej: 815-522-3246
14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (For a Kitching Liston) of the Variety	Ilow INSTRUCTIONS or	(/everse)		•
b. X Exhibit B, Novelty Statement.				
c. X Exhibit C. Objective Description of Variety.	•			
d. X Exhibit D, Additional Description of Variety.				
Exhibit E, Statement of the Basis of Applicant's Owners	hip.			
Seed Sample (2,500 viable untreated seeds) Date See			Office 22 Se	eptember 1994
g. Filing and Examination Fee (\$2,150) made payable to				
15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE S Protection Act.) YES (# "YES." answer items 18 and 17 to		E UNLY AS A CLASS OF 9 (If "NO," skip to item 1:		ee section 83(a) of the Plant Variety
16 DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS NUMBER OF GENERATIONS?				UCTION BEYOND BREEDER SEED?
YES NO		FOUNDATION	REGIS	TERED CERTIFIED
18 DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE	ARIETY IN THE U.S.?			
YES (II "YES," through Plant Variety Protection Act	_			
NO	Paleni Aci. C	IIVE COTE.		
19 HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR	MARKETED IN THE U	S. OR OTHER COUNTRIE	s'	
YES (II "YES," give names of countries and dates)				
X NO				
20. The applicant(s) declare(s) that a viable sample of basic	seeds of this variet	y will be furnished	with the applicat	ion and will be replenished upon
request in accordance with such regulations as may be ap The undersigned applicant(s) is (are) the owner(s) of the	pucable. is savually reased	uced novel plant us	riety and halies	uses that the variety is distinct
uniform, and stable assequired in section 41, and is entit Applicants) is tare tiplormed that false representation he	led to protection ur	nder the provisions o	if section 42 of the	Plant Variety Protection Act.
SIGNATURE OF APPLICANTIO CONTINE				lovre .
I du tillstra		rostitle dinator Re	search &	22 September 1994
			evelopment	
SIGNATURE OF APPLICANT (Owner(s))	CAPACI	TY OR TITLE		DATE
1				
FORM CCCN. 8781 (6.140) FAIRMIN AT ENGINE 1 C 470 2 VE 111 11 11				/

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Exhibit A: Addendum - Origin and Breeding History

Pedigree L163 manual self pollination of (AIR551 x B73) x (AIR24 x B73).

L163 is derived from the cross of (AIR551 x B73) with (AIR24 x B73). AIR551 and AIR24 are Limagrain inbred lines which are of B14 in genetic origin. They are both maintained by Limagrain Genetics.

The pedigree breeding method was used and the developing inbred was top-cross tested at two stages of its development. The primary criteria for each stage of selection was high yield. Secondary criteria included disease resistance and general plant health. The variety has remained stable and uniform through out at least six generations of seed increase and at least two years of official testing in Europe. No variants were observed in the development of L163.

1982	F1> F2	Cremone, Italy
1983	F2> F3	Cremone, Italy
1984	F3> F4	Cremone, Italy
1984	F3 on tester observed	Europe & USA
1984-1985	F4> F5 Winter Nursery	Santiago, Chile
1985	F5> F6 F5 on tester observed	USA & Europe
1985-1986	F6> F7 Winter Nursery	Santiago Chile

Limagrain

Exhibit B: Amended Novelty Statement

L163 is a unique inbred line which is most similar to B73 however L163 is earlier than B73. L163 requires an average of 1493 heat units from planting to male and female flowering. Whereas B73 requires an average of 1516 heat units from planting to male flowering and 1549 heat units to female flowering (Exhibit B-1).

See Exhibits B-2 through B-5 for additional significant differences between L163 and B73, such as, in number of Kernel Rows, and ratings for northern and southern corn leaf blights.

L 163	Inbred	L 163 Inbred Flowering Data	1 Data		
Year	Male	Male Flowering	Ban I		
	C	61110	remale	remaie Flowering	
	Days	Heat Units	Davs	Heat Unite	
1990		1531		4507	:
1991	90	1176		/001	Z Locations 2 Replications
1992	200	14/0	69	1496	3 Locations 2 Replications
700	00	1458	82	1469	A locations of the second
1993	78	1505	78	7,400	T ECCATIONS Z Replications
Average	77	1402	2	1433	4 Locations 2 Replications
		1430	//	1493	
0 72					
n 5/0	pred FI	D / S Inbred Flowering Data	Data		
Year	Male FI	Male Flowering	Fomel		
		20	Lamale L	reliale Flowering	
000,	Days	Heat Units	Days	Heat Units	
1990		1563		1602	
1991	70	1476	7.1		2 Locations 2 Replications
1992	85	1484	- 0	T	3 Locations 2 Replications
1993	84	10017	00	1504	4 Locations 2 Replications
0,0,0	0 1	1539	. 82	1546	4 Locations 2 Renlications
Average	6/	1516	80	1549	S S S S S S S S S S S S S S S S S S S
)	-

L 163 Plant Characteristics vs.	aract	eristi	cs vs	മ	73 Plant Characteristics	int C	harac	teris	tics									
Plant Height (cm)			-							-	-							
1993 Data	-	2	3	4	5	9	7	8	6	9	=	12	13	14	Ave	Sam. Size	Std Dev.	
L 163	216	212	225	196	202	219	216	509	<u> </u>	224	218	208	228		214,5385	13	9.125198	
8 73	230	220	230	225	220	235	210	210	220	_	220	225	225		222.3077	13	7.250111	
			_			-					-	-						
1994 Data	-	2	3	4	5	9	7	8	6	5	=	12	13	14	Ave	Sam. Size	Std Dev.	
L 163	223	219	218	218	221	236	230	231	225		245	226	-		226.4167	12	8.050503	
В 73	241	226	250	237	227	254	245	242	251	239	245	248			242.0833	12	8.836477	
			_				_											
Ear Height (cm)													T					
1993 Data	-	2	د	4	5	9	7	8	6	10	11	12	13	14	Ave	Sam. Size	Std Dev.	
L 163	88	75	92	84	98	84	88	93	9/	87	80	87	88		85.23077	13	5.449065	
B 73	100	92	83	98	92	94	97	95	93	96	103	105	97		95.53846	13	5.621616	
1994 Data	-	2	3	4	5	9	7	8	6	10	-1	12	13	14	Ave	Sam. Size	Std Dev.	
L 163	98	78	95	86	94	88	89	93	35	82	95	97		-	89.33333	12	5.613836	
B 73	105	112	115	83	19	112	88	116	115	94	112	104			106.8333	12	8.942578	
			-				7	-	-		-							
Lenght of Top Ear Nod		e (cm)						_					-				,	
1993 Data	-	2	3	4	2	9.	7	ဆ	<u>-</u>	5	=	12	13	14	Ave	Sam. Size	Std Dev.	
L 163	13.5	14.5	14	14.5	13	13	12.5		12.5	14	13	12.5	12.5		13.03846	13	1.180775	
8 73	13	4	13.5	13	13.5	12.5	13	5	12.5	4	13	13	13	1	13.15385	13	0.473665	
100/ Data	-	c	c	1	u	ď	7	-	c	Ş	1	=======================================	ç	1	4	100	2	
LOSA Cata	-	7	,	+	,	,	-	3	0	2	- -	7	2	-	אני	Saill. 3120	old Dev.	
L. 163	2	4.5	14	4	14.5	2	4	4	2	2	13.5	12.5		-	13.75	12	0.753778	
B 73	12	12.5	9	14.5	12	12	4	15	13	15	4	16.5		1	13.875	12	1.582935	
			-			-	-	1			1	1						
							1	1	\dashv		-	-	-					
		1						1	-	-	-	+	1					
	-	1				1		1	1			-		1	.]			
													-	-				

Exhibit B-2

Exhibit B-3

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THE PARTY OF THE PROPERTY OF T

L 163 vs. B 73 Tassel Charateristics	Tass	e C	narate	risti	SS					-			
Number of Primary	ry Bra	Branches	60	,									
1993 Data	-	2.	3	4	5	9	7	8	6	10	Ave	Sam. Size	Std Dev.
L 163	4	2	5	5	4	. 5	5	4	3	4	4.4	10	1.48324
B 73	9	9	9	9	2	3	8	7	9	9	6.1	10	2.0181
1994 Data	1	2	3	4	5	9	7	æ	6	10	Ave	Sam. Size	Std Dev.
L 163	7	9	5	7	9	5	9	9	9	9	9	10	1.916436
B 73	7	ھ	8	7	8	8	6	8	80	6	80	10	2.493628
Branch Angle from	m Cer	Central Spike	pike										
1993 Data	-	2	3	4	5	9	7	8	6	9	Ave	Sam. Size	Std Dev.
L 163	30	30	30	30	30	30	30	30	30	30	30	10	9.04534
B 73	20	50	30	30	25	93	20	20	8	20	23.5	10	8.393721
											i		
1994 Data	,-	2	3	4	5	9	7	8	6	10	Ave	Sam. Size	Std Dev.
L 163	30	35	35	40	45	45	30	30	30	35	35.5	10	12.11686
B 73	30	70	22	20	25	30	30	30	25	30	26.5	10	8.893307
Length of Tassel (cm	(cm)												
1993 Data	-	2	3	4	5	9	7	8	6	10	Ave	Sam. Size	Std Dev.
L 163	28	35	35	36	39	34	31	36	40	38	35.2	10	11.15347
B 73	40	35	36	9	42	35	28	88	43	37	37.4	10	12
1994 Data	-	2	က	4	5	9	7	8	6	10	Ave	Sam. Size	Std Dev.
L 163	40	35	40	39	38	37	41	37	43	37	38.7	9	11.88123
B 73	46	43	42	45	41	. 45	42	38	44	39	42.5	9-	13.05582

7.

L 163 \	/s. B 73	Les	af Diseas	L 163 vs. B 73 Leaf Disease Ratings				
1992 and	1992 and 1993 Data	ıta						
	NCLB		SCLB	Rust		GLS	Anth.	
L 163	2		2	9		4	5	
B 73	9		9	4		2	8	
* Ratings take	an from Champ	aign ar	nd Kirkland, IL	* Ratings taken from Champaign and Kirkland, IL 1 = Most Suceptible 9 = Most Resistant	9 = Most	Resistant.		
NCLB = North	nen Corn Leaf	Blight (NCLB = Northen Corn Leaf Blight (Exserohilum turcicum)	rcicum)				
SCLB = South	hern Corn Leaf	Blight	SCLB = Southern Corn Leaf Blight (Bipolaris maydis)	(sip		,		
Rust = Comm	Rust = Common Rust (Puccinia sorghi)	inia sor	ghi)					
GLS = Gray L	GLS = Gray Leaf Spot (Cercospra zeae-maydis)	sospra a	zeae-maydis)	·				
Anth. = Anthr	acnose Leaf Bi	light (C	Anth. = Anthracnose Leaf Blight (Colletotrichum graminicola)	raminicola)				

FORM GR-470-28 (2-16-74)

(Com)

UNITED STATES DEPARTMENT OF ACRICULTURE
AGRICULTURAL MARKETING SCANICE
COMMODITIES SCIENTIFIC SUPPORT DIVISION
BELTSVILLE, MARKLAND 20703
OBJECTIVE DESCRIPTION OF VARIETY

L163

CORN [ZEA MAYS]	
wave or appeleantist	FOR OFFICIAL USE ONLY
Limagrain Genetics Corp.	FYFO NUMBER
	VEHICLA HENE DA LEGROPETEA
P.O. Box 278 Kirkland IL 60146	OCSI GNA TION
MILKIANG ID 00140	
Place the appropriate number that describes the varietal character of this variety in the Place a zero in first bus (4-6-069) or 099) when number is either 99 or less or	bases below. 9 or less.
1. TYPE:	
2 1-SWEET 2-DENT 3-FLINT 4-FLOUR 5-PL	DP 6 - DANAMENTAL
2. REGION WHERE BEST ADAPTED IN THE U.S.A.:	
2 1- NORTHWEST 2- NORTHCENTRAL 3- NORTHEAST 5- SOUTHCENTRAL 6- SOUTHWEST 7- MOST REGIONS	4 - SOUTHEAST
3. MATURITY (in Region of Best Adaptability): (Under "	omments" (pg. 3) state how
	s were calculated) O HEAT UNITS
8 3 DAYS FROM EMERGENCE TO SON OF PLANTS IN SILK	2 7 THEAT UNITS
DAYS FROM 50% SILK TO OFTIMUM EDIBLE QUALITY	HEAT UNITS
DAYS FROM SOM SILK TO HARVEST AT 25% KERNEL MOISTURE	HEAT UNITS Not observed
4. PLANT:	
2 1 5 CM, HEIGHT (To tausel tip)	8 6 CM. EAR HEIGHT (TO best of top est)
1 3 CM. LENGTH OF TOP EAR INTERNODE	

Number of Titlers: Number of Ears Per Stalk:	
	SLIGHT TWO-EAR TENDENCY
Cytoplam Type:	EAR TENDENCY 4 THREE-EAR TENDENCY
1 1-NORMAL 2T" 3S" 4C" 5-OTHER	(Specify)
5. LEAF (Field Corn Inbred Examples Giren): 5GY3/4 MUNSELL (CODE
Color:	•
3 1 - LIGHT GREEN (HY) 2 - MEDIUM GREEN (WF9) 3 - DARK GRE	EN (814) 4 = VERY DARK GREEN (K166)
Angle from Stalk (Upper half): Sheeth Pubscence:	
1 1-< 20. 3-20-80. 3-> 60. [] 1- FIGHT	
Marginal Weres: Longitudinal Creases:	TMS.
2 1-NONE (HY) 2-FEW (WF9) 3-MANY (OHTL) 1-ABSENT	
Width: Length: 3 - MANY ()	PA11)
0 0 0 CM, WIDEST POINT OF EAR NOOR LEAF 0 70 CM, EA	A NODE LEAF
0 6 NOMBER OF LEAVES PER MATURE PLANT (above the ear)	• •
श्रुंबर तर १०४वि जार वर्णा इंटर्स	and the second s

	A TAUSEL:	-				
					.*	•
	0 4 NUMBER OF	ATERAL BRANCHES (1.3)		•	
	Branch Angle from Central S	uike;	Pendunci	e Langth:	· • • • • • •	*
	1 - < 201	3 - 20 -40, 3 - >	45'	5 cm rno	OM TOP LLAF TO BASA	L BUVNCHES
	Pollen Shed:	•				
	1 - LIGHT IWE	9) 2 • MEDIL	эм э.	HEAVY(KYZII)		
	6 Anther Color: 5 Glume Color:	1 - YELLOW 6 - OTHER (Specify)		J.RED Munsell 2	4 - PURPLE : 2 - 5YR6/4	S - GREEN
	Pollen Restoration for Cytop	sums to = Not Tested, 1 = Par	rtial, 2 = Good)		•	
	0	.z 0 .c	OTHER ISP	icity Cytoplesm and	degrees of restoration)	
		•				
	7. EAR (Husked Ear Data Exce	pt When Stated Otherwise):				· · · · · · · · · · · · · · · · · · ·
*	1 5 CM LENGTH	41.3 MM MIDPOIN	ır 1 [0 3 GM. WE	IGHT .	
	Kernel Rows:					
	1 - INDISTING	2 - DISTINCT	[1	4 NUMBER	1	
	•				•	
	1 - STRAIGHT	Z = SLIGHTLY C	URVED 3-	SFIRAL		
	Silk Color (Exposed at Silking Munsell Cod	Stage): e 2.5GY8/8				
	Silk Color (Exposed at Silking Mun sell) Cod	Stage): e 2.5GY8/8	- SALMON	SPIRAL		,
	Silk Color (Exposed at Silking Munsell Cod	Stage): e 2.5GY8/8				
	Sith Cotor (Exposed at Sithing Munsell Cod 1 - GREEN	Stage): e 2.5GY8/8	- SALMON		3 - PINK	
•	Silk Color (Exposed at Silking Munsell Cod 1 = GREEN Husk Color: FRESH BRY	Stepe): e 2.5GY8/8 2-PINK 3 t-LIGHT GREEN 4-RED	- SALMON	4 = RED		
	Silk Cotor (Exposed at Silking Munsell Cod 1 = GREEN Husk Color: FRESH B DRY Husk Extention: (Harrest Star	Stepe): e 2.5GY8/8 2-PINK 3 t-LIGHT GREEN 4-RED	= SALMON 2 = DA 5 = PURPLE Husk Leaf	.4-RED IRK GREEN 6-80 : Not ob:	served	
	Silk Color (Exposed at Silking Munsell Cod 1 = GREEN Husk Color: 1 FRESH 6 DRY Husk Extention: (Harved State) 3 1 = SHORT (Ears Exposed) 4 - VERY LONG O 10	Stage): e 2.5GY8/8 Z-PINK 3 1-LIGHT GREEN 4-RED w) ed) 2-MEDIUM (Barely Co- yond Ear Tip)	= SALMON 2 = DA 5 = PURPLE Husk Leaf. vering Ear)	4-RED .RK GREEN 6-81 . Not ob. 1-short (3-Long))FF	и (8—15 СМ)
•	Silk Color (Exposed at Silking Munsell Cod 1 = GREEN Husk Color: T FRESH B DRY Husk Extention: (Marred State 3 = LONG (8-10CM Se 4 - VERY LONG (> 10CM Se Shank:	Stage): e 2.5GY8/8 2-PINK 3 1-LIGHT GREEN 4-RED w) ed) 2-MEDIUM (Barely Corporal Ear Tip) CMJ Not observ	= SALMON 2 = DA 5 = PURPLE Husk Leaf vering Ear) Position at	A - RED A - RED 6 - BL 1 - SHORT (3 - LONG (Dry Hust Singe:	SETVED SETVED SETVEDIUS SETVEDIUS SETVEDIUS	
•	Silk Color (Exposed at Silking Munsell Cod 1 = GREEN Husk Color: 1 FRESH 6 DRY Husk Extention: (Harrest State 3 1 = SHORT (Ears Export 3 2 - LONG (S-10CM Se- Shank: 6 8 CM LONG	Stage): e 2.5GY8/8 2 - PINK 1 - LIGHT GREEN 4 - RED w) ad) 2 - MEDIUM (Barely Co- yond Ear Tip) CM)	= SALMON 2 = DA 5 = PURPLE Husk Leaf vering Ear) Position at Fed 5	A-RED ARK GREEN 6-81 1-5MORT (3-LONG) Dry Hurk Sime: 3 1-UPRIGHT	SETVED SETVED SETVEDIUS SETVEDIUS SETVEDIUS	
•	Silk Color (Exposed at Silking Munsell Cod 1 = GREEN Husk Color: T FRESH B DRY Husk Extention: (Marred State 3 = LONG (8-10CM Se 4 - VERY LONG (> 10CM Se Shank:	Stage): e 2.5GY8/8 2-PINK 3 1-LIGHT GREEN 4-RED w) ed) 2-MEDIUM (Barely Corporal Ear Tip) CMJ Not observ	= SALMON 2 = DA 5 = PURPLE Husk Leaf vering Ear) Position at Ced S Orying Tin	A - RED A - RED 6 - BL 1 - SHORT (3 - LONG (Dry Husk Stope: 3 1 - UPRIGHT	SETVED SETVED SECM) SECM) SECM)	
· · · · · · · · · · · · · · · · · · ·	Silk Color (Exposed at Silking Munsell Cod 1 = GREEN Hush Color: 1 FRESH 6 DRY Hush Extention: (Harrest State 3 1 = SHONG (8-10CM 8-4-VERY LONG O) 10 Shank: 6 8 CM LONG Taper: 1 = SLIGHT	Stage): e 2.5GY8/8 2-PINK 3 1-LIGHT GREEN 4-RED w) ed) 2-MEDIUM (Barely Corporal Ear Tip) CMJ Not observ	= SALMON 2 = DA 5 = PURPLE Husk Leaf vering Ear) Position at Ced S Orying Tin	A-RED ARK GREEN 6-81 1-5MORT (3-LONG) Dry Hurk Sime: 3 1-UPRIGHT	SETVED SETVED SETVEDIUS SETVEDIUS SETVEDIUS	
	Silk Color (Exposed at Silking Munsell Cod 1 = GREEN Husk Color: 1 FRESH 6 DRY Husk Extention: (Harved State 3 1 = SHORT (Earn Expose 4 - VERY LONG (> 10 Shank: 6 8 CM LONG Taper: 1 1 = SLIGHT KERNEL (Dried):	Stage): e 2.5GY8/8 z-PINK i-LIGHT GREEN 4-RED w) a) 2-MEDIUM (Barely Co- yond Ear Tip) CM) NOT OBSETV NO. OF INTERNODE:	= SALMON 2 = DA 5 = PURPLE Husk Leaf vering Ear) Position at Ced S Orying Tin	A = RED LRK GREEN 6 = BL 1 = SHORT (3 = LONG (Dry Husk Stope: 3 1 = UPRIGHT To (Unhusked Esr):	SETVED SETVED SECM) SECM) SECM)	3 = PENDEP
6.	Silk Color (Exposed at Silking Munsell Cod 1 = GREEN Hush Color: 1 FRESH 6 DRY Hush Extention: (Harrest State 3 1 = SHONG (8-10CM 8-4-VERY LONG O) 10 Shank: 6 8 CM LONG Taper: 1 = SLIGHT	Stage): e 2.5GY8/8 z-PINK i-LIGHT GREEN 4-RED w) a) 2-MEDIUM (Barely Co- yond Ear Tip) CM) NOT OBSETV NO. OF INTERNODE:	FORTHE POSITION STORES POSITION STORES Orying Times TEME	A = RED LRK GREEN 6 = BL 1 = SHORT (3 = LONG (Dry Husk Stope: 3 1 = UPRIGHT To (Unhusked Esr):	SETVED SETVED SECM) SECM) SECM)	3 = PENDER
6.	Silk Cotor (Exposed at Silking Munsell Cod 1 = GREEN Hush Color: T FRESH B DRY Hush Extention: (Harred State 3 1 = SHORT (Ears Exposed 4 - VERY LONG (> 10) Shank: G 8 CM LONG Teper: 1 = SLIGHT KERNEL (Dried): Size (From Ear Mid-Point):	Stage): e 2.5GY8/8 2-PINK 3 t-LIGHT GREEN 4-RED w) 4-RED NO 12-MEDIUM (Barely Co- yond Ear Tip) CM) NOT ODSERV NO. OF INTERNODE: 2-AVERAGE 3-EXTE	= SALMON 2 = DA 5 = PURPLE Husk Leaf vering Ear) Position at red Orying Tim REME 0 5	A - RED A - RED 6 - BL 1 - SHORT (3 - LONG (Dry Husk Stope: 3 1 - UPRIGHT 1 - SLOW	SETVED SETVED SECM) 15 CM) 2 - HORIZONTAL 2 - AVERAGE	. 3 - PENDEN

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8. KERNE	L (Dried) :				
10 A 4	5 - 8ROV	# # # # # # # # # # # # # # # # # # #		3 - TAN 7 - CHEARY REC	
1	Aleurane Color 1 - HOMO		EGREGATING IDescribe	1	
M5 9 B	Munsell 7.5 YR 5/ 1-WHITE 2-PH 2-PURPLE 8-PA	MAT - E NA	4 = BROWN	Yellow 6	- 890NZE 6 - F
3 A	Endosperm Color: 1 - W		4 3 - YELLOW	4 - PINK-ORAN	GE SA WHITE CAP
Endospe	7.5YR6/10				*
3		2 = EXTRA SWEET (ch2) 6 = HIGH PROTEIN	3 + NORMAL ST 1 + HIGH LYSIN		GH AMYLOSE STARCH HER (Specify)
31	GM, WEIGHT /100 SEEDS (U	neized Semple1			
15 9. coa:	MM, DIAMETER AT MID-POI				
Strongth	1 - WEAK 2 - STRO	nc 3= Intermediate	Color: Munse 3 1 - WHITE 5 - VARIEGATI	1 10R 4/7 2 - PINK 3 - REC ED 60THE) 4 • 8ROWN R (Specify)
10. DISEAS	E RESISTANCE 10 - Not Tene				
	STAUK ROT (Diplodis)	STALK BOT		☐ .,,	LK ROT (Gioberella)
	NORTHERN LEAF BLIGHT	2 SOUTHEAN		SMU	
				<u></u>	TERIAL WILT
	SOUTHERN RUST	COANSMU		느	
	BACTERIAL LEAF BLIGHT Common	Rust = MAIZE DWA	ARE MOSAIC	STU	NT .
	OTHER (SOUCHY) GOLY L	eaf Spot = 4	Anthracinoce	Leaf Blight =	5
11. INSECT	RESISTANCT (O - Not Tend.	1 = Susceptible, 2 = Resistant	t		
	CORNBORER	EARWORM	S	APBEETLE	APHID
	ROOTWORM (Northern)	. AOOTWOAM (Western	1		
	ROOTWORM (Southern)	OTHER (Specify)			
12 VARIET	TES MOST CLOSELY RESEMB	LING THAT SUBMITTED FO	A THE CHARACTERS	GIVEN:	
CHARA		VARIETY	CHARACTE		VARIETY
Maturity			Karnel Type		
Plant Ty			Quality (Ed	0101	
Est Tros		1	Usege		
REFERE	NCES: U.S. D'obortment Agriculture,				
	Corn; Culture, Proceeding, Proc		mpeny, Westport, Conn	ecticut (Numerous (A	Luthors
1 /	* ~	d A.C Field A Summery of	Linkage Studies in Mals	,Carnell A E S , Mem	. 180, 1935.
100	MEN	Joa Science Society of Amer			
	4 42 V20	Lines of Ohio, Ohio A.E.S. B for the Classification of Corn		esis, Onio State Unive	wiy.
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REPRODUCE LOCALLY. Include form number and date on all reproductions.	FORM APPROVED - OMB A		EXPIRES: 12-31-86
U.S. DEPARTMENT OF A DIVICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are med 1974 (5 U.S.C. 552s) and the Pap	le in accordance : erwork Reduction	ofth the Primary And al
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to certificate is to be issued (7 U.S.C. until certificate is issued (7 U.S.C.	o determino II.,e j C. 2421). Informe	Hent veriery nontambre
1. NAME OF APPLICANTIS/	2. TEMPORARY DESIGNATION	3. VARIETY NA	ME
Limagrain Genetics Corp	OR EXPERIMENTAL NUMBER		·
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code)	6. FAX (Include a	ves code/
PO Box 278	815-522-3241	851-52	2-7762
Kirkland IL 60146	7. PVPO NUMBER 9400281		,
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate b	lock. If no, please explain.	X YES	ом (
			,
is the applicant (individual or company) a U.S. national or U.S. based company if no, give name of country	?	X YES]ио
10. Is the applicant the original breeder? If no, please answer the following:		X YES	по
 a. If original rights to variety were owned by individual(s); is (are) the original breeder(s) a U.S. national(s)? If no, give name of c 	ountry		
b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of cou	untry	YES []no
11. Additional explantion on ownership (If needed, use reverse for extra specel:			· · · · · · · · · · · · · · · · · · ·
PLEASE NOTE:			
Plant variety protection can be afforded only to owners (not licensees) who meet o	one of the following critaria:		*
If the rights to the variety are owned by the original breeder, that person must of a country which affords similar protection to nationals of the U.S. for the sai		UPOV member	country, or national
If the rights to the variety are owned by the company which employed the originationals of a UPOV member country, or owned by nationals of a country which genus and species.			
3. If the applicant is an owner who is not the original breeder, both the original breeder.	seder and the applicant must me	et one of the ab	ove criteria.
The original breeder may be the individual or company who directed final breed definition,	fing. See Section 41(a)(2) of	he Plant Variety	Protection Act for
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